

Patent Application of

Buddy Fong and Gerald Wayne Fong

DISCSMARK STAKE MARKER , A STAKE MARKER ,WITH A NAIL-ABLE HEAD INSERT, TO LOCATE POINTS ON THE GROUND

CROSS-REFERENCE TO RELATED APPLICATIONS

Not Applicable.

BACKGROUND --FIELD OF INVENTION

This invention relates to stake markers use to locate points on ground, permanently or temporally.

The invention has a nail-able head insert, to which other identifying objects supplied by user, can be permanently attached to the stake marker.

BACKGROUND--DESCRIPTION OF PRIOR ART

Surveyors commonly mark property line corners with a solid steel reinforcing rod, which is usually driven into the ground until only about a half inch of the rod is left exposed. Most states require surveyors to permanently identify such markers with the surveyors name and license number. Such items containing this information are usually attached with a wire, or is a plastic cap slipped onto the end of the rod. Both can be easily removed.

This invention is a stake marker with a nail-able head insert to which an identifying object supplied by the user, can be permanently nailed to the stake marker.

SUMMARY

In accordance with the present invention, a stake marker of this invention consists of a tube body of steel, galvanized steel, or stainless steel, for locating points on the ground. The stake marker being approximately $\frac{1}{2}$ inch in diameter and varies in length to approximately two feet. The stake marker has a nail-able insert at the top or head of the stake for permanent attachment(of other types of markers provided by user) with a nail or non removable screw. The stake marker has the head of the stake and top of the insert coated with paint or vinyl coating for visibility and durability. Inserts can vary from wood to plastic and metal. Methods of attaching inserts to the tube vary from crimping to adhesives, to securing insert to tube with fasteners or pins. Another insert can be metal or plastic which expands when a nail or screw is inserted.

Object and Advantages

Accordingly, besides the objects and advantages of the stake marker described in the above patent, several objects and advantages of the present invention are obvious;

- (a) The stake marker itself can be used as a marker, also since it has a nail-able head, other markers may be permanently attached to the stake marker.
- (b) to provide a stake marker that is light weight, easy and convenient to use, economical to produce and ship.

DRAWING FIGURES

Fig 1 a perspective view : of the stake marker

Fig 2 a side view : of the stake marker

Fig 3 a cross section: of the stake marker with the nail-able insert at the top of the stake

The insert secured to tube by crimping tube onto wood insert

Fig 4 a cross section : showing securing insert to tube with adhesive (5)

Fig 5 a cross section: showing securing insert to tube with a pin (6)

Fig 6 a cross section : showing a plastic or metal insert (7) with lip (8) over the top edge of tube

The insert has a pilot hole for nail or screw

Fig 7 a perspective view: showing how an identifying item (12) supplied by user can be nailed to the stake marker

Reference Numerals to Drawing

1. Paint or vinyl coating
2. A metal tube stake marker, steel, galvanized steel, or stainless steel
3. Crimp in steel tubing, securing wood insert to tube
4. A nail-able insert, such as wood, treated with waterproof sealer for durability
5. Adhesive, as an alternate means of securing insert to tube
6. A metal pin to secure insert to tube
7. A metal or plastic insert, lips top edge of tube
8. lip of metal or plastic insert
9. Pilot hole for nail or screw
10. Expandable insert, expands against tube when nail or screw is inserted
11. Nail
12. Identifying marker item provided by user

Description of Invention-fig 1 - fig 7

Fig 1 shows a perspective of the tube (2) stake marker. The tube stake (2) can be steel, Galvanized steel, or stainless steel. The stake marker has a wood insert (4) inside the tube at the top end of the stake. The insert is secured to the tube (2) by crimping (3) the tube onto the wood insert, which is waterproofed. The head of the insert and the top of the stake tube is coated with paint or vinyl (1) for visibility and durability. Fig 2 shows a side elevation of the stake marker. Fig 3 Shows crimping (3) the tube (2) onto the wood insert (4).

Various methods can be used for securing inserts to the tube:

Additional Embodiments: Fig 4 , a cross section shows securing the insert (4) to the tube (2) with adhesive (5) .

Additional Embodiments Fig 5, a cross section shows a pin (6) securing the insert (4) to the tube (2).

Additional Embodiments Fig 6 ,a cross section shows a metal or plastic insert, with a lip (8) over the top edge of the tube, the insert having a pilot hole (9) to receive a nail or screw, which when inserted expands the expandable body (10) against the tube (2).

Advantages

From the description above, the stake marker is light weight and economical to manufacture and ship because of it's tube body. Since the stake material and nail-able insert can vary in materials and manufacture, the cost of the product can vary to give the user a choice of economical product to a more expensive and permanent product.

operation

Drive the stake marker (2) into the ground and nail an identifying marker item (provided by the user) to the head of the stake marker.

Conclusion, Ramifications, and Scope

Accordingly, the reader will see the stake marker of this invention provides an easy to use, visible, lightweight, economical to produce and ship, device that surveyors can easily use.

Accordingly, the scope of the invention should be determined not by the embodiment(s) illustrated, but by the appended claims and their legal equivalents.